

# Package ‘BRVM’

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**Type** Package

**Title** Retrieve Historical Data of Companies Listed on the 'BRVM' Stock Exchange

**Version** 5.0.0

**Description** Provide real-time access to data from the Regional Securities Exchange SA, commonly known as the 'BRVM' stock exchange. The goal is to facilitate data access for users of the R programming language. The package includes a variety of data that can be accessed by calling functions.

**License** MIT + file LICENSE

**Encoding** UTF-8

**Imports** magrittr, rlang ( $\geq 0.4.11$ ), tidyr, dplyr, gsheets, httr, httr2, tseries, goftest, nortest, fBasics, stringr, tibble, xml2, highcharter, xts, formattable, timeDate, rvest, lubridate

**Suggests** rmarkdown, knitr, roxygen2

**VignetteBuilder** knitr

**RoxygenNote** 7.2.3

**NeedsCompilation** no

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**Index** **30**

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BRVM.index	<i>BRVM Available Indexes</i>
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---

**Description**

It receives no argument and returns BRVM's indexes informations.

**Usage**

BRVM.index()

**Value**

A character

**Author(s)**

Koffi Frederic SESSIE

**See Also**

Other BRVM: [BRVM\\_cap\(\)](#), [BRVM\\_company\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_company\\_url\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [BRVM\\_traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

## Examples

```
BRVM.index()
```

---

BRVM\_bySector

*BRVM By Sector*

---

## Description

This function will take in the name of sector(s) and returns data for companies belonging to that/those sector(s)

## Usage

```
BRVM_bySector(.sectors = NULL)
```

## Arguments

`.sectors` A vector of sectors you wish to have returned.

## Details

This function will take in a vector of sectors provided by the end user and return a tibble.

## Value

A tibble

## Author(s)

Koffi Frederic SESSIE

Oudouss Diakité Abdoul

Steven P. Sanderson II, MPH

## See Also

Other Data Retrieval: [BRVM\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_get1\(\)](#), [BRVM\\_get\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#)

**Examples**

```

library(stringr)
library(rlang)
library(xml2)
library(rvest)
library(dplyr)

sectors <- c("Industry", "Administration", "Public service", "AUtr", "FINANCE",
            "distribution", 25)
BRVM_bySector(.sectors = sectors)
BRVM_bySector(.sectors = "All")
BRVM_bySector(.sectors = c("Other", "Agriculture"))

```

---

BRVM\_cap

*BRVM Capitalization*


---

**Description**

It receives no argument and returns informations about BRVM capitalization

**Usage**

```
BRVM_cap()
```

**Value**

A tibble

**Author(s)**

Koffi Frederic SESSIE

**See Also**

<https://www.brvm.org/en/capitalisations/0>

Other Data Retrieval: [BRVM\\_bySector\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_get1\(\)](#), [BRVM\\_get\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#)

Other BRVM: [BRVM.index\(\)](#), [BRVM\\_company\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_company\\_url\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [BRVM\\_traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

## Examples

```
BRVM_cap()
```

---

BRVM_company_cap	<i>BRVM companies capitalization value - To get the capitalization value data of all companies listed on BRVM stock exchange</i>
------------------	--

---

## Description

This function will get the capitalization value data of all companies listed on the BRVM exchange. The function takes no parameter

## Usage

```
BRVM_company_cap()
```

## Value

A tibble

## Author(s)

Koffi Frederic SESSIE

## See Also

Other BRVM: [BRVM.index\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_company\\_url\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [BRVM\\_traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

## Examples

```
BRVM_company_cap()
```

---

BRVM\_company\_info      *BRVM Get info about a ticker beta, RSI, Closing, Valorisation, etc.*

---

### **Description**

It receives the ticker of a company or index listed on the BRVM stock exchange, Turn to upper case the input by using toupper() and returns informations about the company's RSI, Beta, Closing price, etc. .

### **Usage**

```
BRVM_company_info(ticker)
```

### **Arguments**

    ticker              The ticker of a company

### **Value**

    A tibble

### **Author(s)**

    Koffi Frederic SESSIE

### **See Also**

<https://www.sikafinance.com>

### **Examples**

```
BRVM_company_info("BOAS")  
BRVM_company_info("BoaM")  
BRVM_company_info("BRVMAG")
```

---

BRVM_company_rank	<i>BRVM Companies Rank - Get all tickers rank according to last quotation</i>
-------------------	---

---

### Description

This function returns companies rank from the BRVM Bourse exchange according to their daily change (variation).

### Usage

```
BRVM_company_rank()
```

### Details

This function will get the rank of the companies listed on the BVRM exchange through the Rich Bourse site. The function takes no parameter

### Value

```
"tbl_df" "tbl" "data.frame"
```

### Author(s)

Koffi Frederic SESSIE  
Oudouss Diakité Abdoul  
Steven P. Sanderson II, MPH

### See Also

<https://www.brvm.org/en/cours-actions/0>

Other Data Retrieval: [BRVM\\_bySector\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_get1\(\)](#), [BRVM\\_get\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#)

Other BRVM: [BRVM.index\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_cap\(\)](#), [BRVM\\_company\\_url\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [BRVM\\_traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

### Examples

```
BRVM_company_rank()
comp.rank<-BRVM_company_rank()
comp.rank<-comp.rank%>%
dplyr::arrange(desc(percent_change))
comp.rank
```

---

BRVM_company_url	<i>BRVM company url</i>
------------------	-------------------------

---

**Description**

It receives the ticker name and return an URL

**Usage**

```
BRVM_company_url(company)
```

**Arguments**

company            is the name of the Ticker

**Value**

URL

**Author(s)**

Koffi Frederic SESSIE

**See Also**

Other BRVM: [BRVM.index\(\)](#), [BRVM.cap\(\)](#), [BRVM.company\\_cap\(\)](#), [BRVM.company\\_rank\(\)](#), [BRVM.index\\_stock\(\)](#), [BRVM.index\(\)](#), [BRVM.market\\_activity\(\)](#), [BRVM.plot\(\)](#), [BRVM.stock\\_market\(\)](#), [BRVM.ticker\\_desc\(\)](#), [BRVM.traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

**Examples**

```
BRVM_company_url("BICC")
```

---

BRVM_direction	<i>BRVM Rank</i>
----------------	------------------

---

### Description

This function will take in 'Up' or 'Down' and returns respectively n results for the top or flop ranking of the BRVM tickers.

### Usage

```
BRVM_direction(.up_or_down = "Up")
```

### Arguments

.up\_or\_down This is a character string set to "Up" It can either be 'Up' or 'Down'.

### Details

This function will get any n results for the top or flop ranking of the BRVM tickers.

### Value

A tibble

### Author(s)

Koffi Frederic SESSIE  
Oudouss Diakit  Abdoul  
Steven P. Sanderson II, MPH

### Examples

```
BRVM_direction("Up")
```

BRVM\_get

*BRVM Get - Get Ticker Data***Description**

This function will get data from the Rich Bourse exchange.

**Usage**

```
BRVM_get(.symbol, .from = Sys.Date() - 365, .to = Sys.Date() - 1)
```

**Arguments**

<code>.symbol</code>	A vector of symbols, like: <code>c("BICC", "XOM", "SlbC")</code>
<code>.from</code>	A quoted start date, ie. "2020-01-01" or "2020/01/01". The date must be in ymd format "YYYY-MM-DD" or "YYYY/MM/DD".
<code>.to</code>	A quoted end date, ie. "2022-01-31" or "2022/01/31". The date must be in ymd format "YYYY-MM-DD" or "YYYY/MM/DD"

**Details**

This function will get data of the companies listed on the BVRM exchange through the Rich Bourse site. The function takes in a single parameter of `.symbol`. The function will auto-format the tickers you input into all upper case by using `toupper()`. The function will next make sure that the ticker passed is inside of a google spreadsheet of allowed tickers.

**Value**

A tibble

**Author(s)**

Koffi Frederic SESSIE  
Oudouss Diakité Abdoul  
Steven P. Sanderson II, MPH

**See Also**

<https://www.richbourse.com>

`BRVM_ticker_desc()`, `BRVM_tickers()`

Other Data Retrieval: `BRVM_bySector()`, `BRVM_cap()`, `BRVM_company_rank()`, `BRVM_get1()`, `BRVM_index_stock()`, `BRVM_index()`, `BRVM_market_activity()`, `BRVM_plot()`, `BRVM_stock_market()`, `BRVM_ticker_desc()`, `company_cap()`, `company_country()`, `company_nbrank()`, `company_sector()`, `company_traded_val()`

Other Richbourse: `BRVM_ticker_desc()`

**Examples**

```

library(lubridate)
library(rlang)
library(httr2)
library(dplyr)
library(stringr)

symbols <- c("BiCc","XOM","SlbC")
data_tbl <- BRVM_get(.symbol = symbols)
data_tbl

```

BRVM\_get1

*BRVM Get - Get BRVM stock exchange Ticker Data***Description**

This function will get data from the Sikafinance exchange.

**Usage**

```
BRVM_get1(ticker = "BICC", Period = 0, from = Sys.Date() - 89, to = Sys.Date())
```

**Arguments**

ticker	A vector of ticker, like: c("BICC","XOM","SlbC", "BRvm10")
Period	Numeric number indicating time period. Valid entries are 0, 1, 5, 30, 91, and 365 representing respectively 'daily', 'one year', 'weekly', 'monthly', 'quarterly' and 'yearly'.
from	A quoted start date, ie. "2020-01-01" or "2020/01/01". The date must be in ymd format "YYYY-MM-DD" or "YYYY/MM/DD".
to	A quoted end date, ie. "2022-01-31" or "2022/01/31". The date must be in ymd format "YYYY-MM-DD" or "YYYY/MM/DD"

**Details**

This function will get data of the companies listed on the BVRM exchange through the sikafinance site. The function takes in a single parameter of ticker The function will auto-format the tickers you input into all upper case by using toupper()

**Value**

A tibble

**Author(s)**

Koffi Frederic SESSIE

**See Also**<https://www.sikafinance.com/>

BRVM\_ticker\_desc(), BRVM\_tickers(), BRVM\_get(), BRVM\_index\_stock()

Other Data Retrieval: [BRVM\\_bySector\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_get\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#)**Examples**

```

library(lubridate)
library(rlang)
library(httr2)
library(dplyr)
library(stringr)

symbols <- c("BiCc", "XOM", "Slbc")
data_tbl <- BRVM_get1(ticker = symbols)
data_tbl

#From three year ago to the present

BRVM_get1("ALL INDEXES", from = Sys.Date() - 252*3, to = Sys.Date())

BRVM_get1(ticker = "BRVMAG", from = "2010-01-04", to = "2022-01-04")

BRVM_get1("ALL", Period = 0, from = "2010-01-04", to = "2022-01-04" ) #To get daily data

BRVM_get1("BrvmAS", Period = 1 ) # To get daily data for a whole year

BRVM_get1(c("BRVMPR", "BRVMAG"), Period = 5) # To get weekly data

BRVM_get1("BRVMAG", Period = 30 ) # To get monthly data

BRVM_get1("BRVMPR", Period = 91 ) # To get quaterly data

BRVM_get1(c("brvmtr", "BiCc", "BOAS"), Period = 365 ) # To get yearly data

```

**Description**

This function will get data from <https://www.brvm.org/>.

**Usage**

```
BRVM_index()
```

**Details**

This function will get index data from <https://www.brvm.org/>

**Value**

A tibble

**Author(s)**

Koffi Frederic SESSIE

Oudouss Diakit  Abdoul

Steven P. Sanderson II, MPH

**See Also**

<https://www.brvm.org/en/indices/status/200>

Other Data Retrieval: [BRVM\\_bySector\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_get1\(\)](#), [BRVM\\_get\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#)

Other BRVM: [BRVM.index\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_company\\_url\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [BRVM\\_traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

**Examples**

```
BRVM_index()
```

---

BRVM\_index\_stock      *BRVM index stock - Given a set of indexes, return their stock data*

---

### Description

Give a set of indexes and get it/their stock data. Use `BRVM.index()` function to know all available indexes

### Usage

```
BRVM_index_stock(
  .ticker = "BRVM10",
  Period = 0,
  from = Sys.Date() - 89,
  to = Sys.Date()
)
```

### Arguments

<code>.ticker</code>	Must be at least one index between <code>c("BRVM10", "BRVMAG", "BRVMC", "BRVMAS", "BRVMDI", "BRVMIN", "BRVMSP", "BRVMTR")</code>
<code>Period</code>	Numeric number indicating time period. Valid entries are 0, 1, 5, 30, 91, and 365 representing respectively 'daily', 'one year', 'weekly', 'monthly', 'quarterly' and 'yearly'.
<code>from</code>	A quoted start date, ie. "2020-01-01" or "2020/01/01". The date must be in ymd format "YYYY-MM-DD" or "YYYY/MM/DD".
<code>to</code>	A quoted end date, ie. "2022-05-20" or "2022/05/20". The date must be in ymd format "YYYY-MM-DD" or "YYYY/MM/DD".

### Value

"data.frame"

### Author(s)

Koffi Frederic SESSIE

### See Also

`BRVM_get()`, `BRVM_get1()`

Other Data Retrieval: `BRVM_bySector()`, `BRVM_cap()`, `BRVM_company_rank()`, `BRVM_get1()`, `BRVM_get()`, `BRVM_index()`, `BRVM_market_activity()`, `BRVM_plot()`, `BRVM_stock_market()`, `BRVM_ticker_desc()`, `company_cap()`, `company_country()`, `company_nbrank()`, `company_sector()`, `company_traded_val()`

Other BRVM: `BRVM.index()`, `BRVM_cap()`, `BRVM_company_cap()`, `BRVM_company_rank()`, `BRVM_company_url()`, `BRVM_index()`, `BRVM_market_activity()`, `BRVM_plot()`, `BRVM_stock_market()`, `BRVM_ticker_desc()`,

```
BRVM_traded_val(), company_cap(), company_country(), company_nbrank(), company_sector(),
company_traded_val(), normality_test(), stationarity_test()
```

## Examples

```
BRVM_index_stock(.ticker = "BRVMAG", from = "2018-01-04", to = "2022-01-04")
BRVM_index_stock("BRVM10", Period = 0, from = "2021-01-04", to = "2022-01-04" ) #To get daily data
BRVM_index_stock("BrvmAS", Period = 1 ) # To get daily data for a whole year
BRVM_index_stock("BRVM10", Period = 5, from = "2021-01-04", to = "2022-01-04") # To get weekly data
BRVM_index_stock("BRVMAG", Period = 30 ) # To get monthly data
BRVM_index_stock("BRVM10", Period = 91 ) # To get quaterly data
BRVM_index_stock("brvmtr", Period = 365 ) # To get yearly data
```

---

BRVM\_market\_activity *BRVM MARKET ACTIVITIES*

---

## Description

It receives no argument and returns informations about BRVM market activities

## Usage

```
BRVM_market_activity()
```

## Value

A tibble

## Author(s)

Koffi Frederic SESSIE

## See Also

<https://www.brvm.org/en/summary>

Other Data Retrieval: [BRVM\\_bySector\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_get1\(\)](#), [BRVM\\_get\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#)

Other BRVM: [BRVM.index\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_company\\_url\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [BRVM\\_traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

## Examples

```
BRVM_market_activity()
```

---

BRVM\_plot

*BRVM PLOT*

---

## Description

This function will get Ticker(s) data and then plot it.

## Usage

```
BRVM_plot(  
  .company,  
  from = Sys.Date() - 365,  
  to = Sys.Date() - 1,  
  up.col = "darkgreen",  
  down.col = "red"  
)
```

## Arguments

<code>.company</code>	is the Ticker(s) name(s)
<code>from</code>	A quoted start date, ie. "2020-01-01" or "2020/01/01". The date must be in ymd format "YYYY-MM-DD" or "YYYY/MM/DD".
<code>to</code>	A quoted end date, ie. "2022-01-31" or "2022/01/31". The date must be in ymd format "YYYY-MM-DD" or "YYYY/MM/DD"
<code>up.col</code>	is the up color
<code>down.col</code>	is down color

## Value

An interactive chart

## Author(s)

Koffi Frederic SESSIE

**See Also**

BRVM\_ticker\_desc()

BRVM\_tickers()

Other Data Retrieval: [BRVM\\_bySector\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_get1\(\)](#), [BRVM\\_get\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#)

Other BRVM: [BRVM.index\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_company\\_url\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [BRVM\\_traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

**Examples**

```
library(highcharter)
library(lubridate)
library(rlang)
library(httr2)
library(dplyr)
library(stringr)
library(xts)

BRVM_plot("BICC")

# You can change the up and down colors as follow
BRVM_plot("BICC", up.col = "blue", down.col = "pink")

# Plot the closing price of a group of 3 tickers
BRVM_plot(c("BICC", "ETIT", "SNTS"))
```

---

BRVM\_rank

*BRVM\_rank - Get top or flop data of BRVM stock exchange*


---

**Description**

It receives "top" or "flop" and a number 'n' and returns table of companies classification

**Usage**

```
BRVM_rank(top_or_flop, n = 10)
```

**Arguments**

top\_or\_flop      Choose between "top" or "flop"  
n                    is the number of companies in the classification

**Value**

```
"tbl_df" "tbl" "data.frame"
```

**Author(s)**

Koffi Frederic SESSIE  
Oudouss Diakité Abdoul  
Steven P. Sanderson II, MPH

**Examples**

```
BRVM_rank("top", 15)  
BRVM_rank("flop", 5)
```

---

BRVM\_stock\_market      *BRVM Official Quotation reviews*

---

**Description**

This function receives as input a day of the week (working day) and returns the official quotation reviews of that day.

**Usage**

```
BRVM_stock_market(.weekday)
```

**Arguments**

`.weekday`      A quoted date, ie. "2022-01-31" or "2022/01/31". The date must be in ymd format "YYYY-MM-DD" or "YYYY/MM/DD". Must not be a weekend or a holiday

**Value**

A formattable table

**Author(s)**

Koffi Frederic SESSIE

**See Also**

Other Data Retrieval: [BRVM\\_bySector\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_get1\(\)](#), [BRVM\\_get\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#)

Other BRVM: [BRVM.index\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_company\\_url\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [BRVM\\_traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

**Examples**

```
library(httr)
library(lubridate)
library(rvest)
library(timeDate)
library(formattable)
library(stringr)

BRVM_stock_market("2022-04-25")
BRVM_stock_market("2021-03-25")
```

---

BRVM\_tickers

*BRVM Tickers - Information about listed companies on BRVM Stock exchange*

---

**Description**

It receives no argument and returns two informations about BRVM exchange companies (ticker and company name).

**Usage**

```
BRVM_tickers()
```

**Value**

A tibble

**Author(s)**

Koffi Frederic SESSIE  
Oudouss Diakité Abdoul  
Steven P. Sanderson II, MPH

**See Also**

BRVM\_ticker\_desc()

**Examples**

```
BRVM_tickers()
ticks <- BRVM_tickers()
dput(ticks$Ticker) ## Returns the name of all tickers
```

---

BRVM\_ticker\_desc      *BRVM ticker description - BRVM ticker information*

---

**Description**

It receives no argument and returns informations about BRVM exchange companies.

**Usage**

```
BRVM_ticker_desc()
```

**Details**

This function gives many informations about each ticker, his full name, sector and his country

**Value**

A tibble

**Author(s)**

Koffi Frederic SESSIE  
Oudouss Diakité Abdoul  
Steven P. Sanderson II, MPH

**See Also**

<https://www.brvm.org/en/cours-actions/0>

BRVM\_tickers()

Other Data Retrieval: [BRVM\\_bySector\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_get1\(\)](#), [BRVM\\_get\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#)

Other Richbourse: [BRVM\\_get\(\)](#)

Other BRVM: [BRVM.index\(\)](#), [BRVM.cap\(\)](#), [BRVM.company\\_cap\(\)](#), [BRVM.company\\_rank\(\)](#), [BRVM.company\\_url\(\)](#), [BRVM.index\\_stock\(\)](#), [BRVM.index\(\)](#), [BRVM.market\\_activity\(\)](#), [BRVM.plot\(\)](#), [BRVM.stock\\_market\(\)](#), [BRVM.traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

## Examples

```
BRVM_ticker_desc()
```

---

BRVM_traded_val	<i>BRVM traded value - To get the traded volume value data of all companies listed on BRVM stock exchange</i>
-----------------	---

---

## Description

This function will get the traded volume value data of all companies listed on the BVRM exchange. The function takes no parameter

## Usage

```
BRVM_traded_val()
```

## Value

A tibble

## Author(s)

Koffi Frederic SESSIE

## See Also

Other BRVM: [BRVM.index\(\)](#), [BRVM.cap\(\)](#), [BRVM.company\\_cap\(\)](#), [BRVM.company\\_rank\(\)](#), [BRVM.company\\_url\(\)](#), [BRVM.index\\_stock\(\)](#), [BRVM.index\(\)](#), [BRVM.market\\_activity\(\)](#), [BRVM.plot\(\)](#), [BRVM.stock\\_market\(\)](#), [BRVM.ticker\\_desc\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

## Examples

```
BRVM_traded_val()
```

---

company_cap	<i>Company capitalization - To know the capitalization of a given company</i>
-------------	---

---

### Description

It receives one company listed on the BRVM stock exchange, Turn to upper case your input by using `toupper()` and returns informations about the company's capitalization

### Usage

```
company_cap(company)
```

### Arguments

company	The name of company listed on the BRVM stock exchange
---------	---

### Value

"character"

### Author(s)

Koffi Frederic SESSIE

### See Also

Other Data Retrieval: [BRVM\\_bySector\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_get1\(\)](#), [BRVM\\_get\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#)

Other BRVM: [BRVM.index\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_company\\_url\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [BRVM\\_traded\\_val\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

### Examples

```
library(rvest)

company_cap("BICC")
company_cap("ontbf")
```

---

company_country	<i>Company's country - To know the country of a given company</i>
-----------------	---

---

**Description**

It receives one company listed on the BRVM stock exchange, Turn to upper case your input by using `toupper()` and returns informations about the company's country.

**Usage**

```
company_country(company)
```

**Arguments**

company	The name of company listed on the BRVM stock exchange
---------	---

**Value**

"character"

**Author(s)**

Koffi Frederic SESSIE

**See Also**

Other Data Retrieval: [BRVM\\_bySector\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_get1\(\)](#), [BRVM\\_get\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [company\\_cap\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#)

Other BRVM: [BRVM.index\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_company\\_url\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [BRVM\\_traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

**Examples**

```
company_country("BICC")  
company_country("SNTS")
```

---

company_nbrank	<i>BRVM get company rank - Get a ticker rank according to brvm quote</i>
----------------	--

---

### Description

This function returns the given company rank from the BRVM stock exchange according to their daily change (variation). It uses `BRVM_company_rank()` to show all copanies rank before filtering the company we give as input

### Usage

```
company_nbrank(.company)
```

### Arguments

.company	The company name
----------	------------------

### Details

This function will get the rank of one companies listed on the BVRM exchange through the Rich Bourse site. The function takes as parameter the name of company listed on BRVM

### Value

"character"

### Author(s)

Koffi Frederic SESSIE  
 Oudouss Diakité Abdoul  
 Steven P. Sanderson II, MPH

### See Also

<https://www.brvm.org/en/cours-actions/0>

`BRVM_company_rank()`

Other Data Retrieval: `BRVM_bySector()`, `BRVM_cap()`, `BRVM_company_rank()`, `BRVM_get1()`, `BRVM_get()`, `BRVM_index_stock()`, `BRVM_index()`, `BRVM_market_activity()`, `BRVM_plot()`, `BRVM_stock_market()`, `BRVM_ticker_desc()`, `company_cap()`, `company_country()`, `company_sector()`, `company_traded_val()`

Other BRVM: `BRVM.index()`, `BRVM_cap()`, `BRVM_company_cap()`, `BRVM_company_rank()`, `BRVM_company_url()`, `BRVM_index_stock()`, `BRVM_index()`, `BRVM_market_activity()`, `BRVM_plot()`, `BRVM_stock_market()`, `BRVM_ticker_desc()`, `BRVM_traded_val()`, `company_cap()`, `company_country()`, `company_sector()`, `company_traded_val()`, `normality_test()`, `stationarity_test()`

**Examples**

```
company_nbrank("BICC")
company_nbrank("SNTS")
```

---

company_sector	<i>Company's sector - To know the sector of a given company</i>
----------------	---

---

**Description**

It receives one company listed on the BRVM stock exchange, Turn to upper case your input by using toupper() and returns informations about the company's sector.

**Usage**

```
company_sector(company)
```

**Arguments**

company	The name of company listed on the BRVM stock exchange
---------	---

**Value**

"character"

**Author(s)**

Koffi Frederic SESSIE

**See Also**

Other Data Retrieval: [BRVM\\_bySector\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_get1\(\)](#), [BRVM\\_get\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_traded\\_val\(\)](#)

Other BRVM: [BRVM.index\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_company\\_url\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [BRVM\\_traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

**Examples**

```
company_sector("BICC")
company_sector("SNTS")
```

---

company_traded_val	<i>Brvm Company traded volume value - To know the traded volume value of each company</i>
--------------------	---

---

### Description

It receives one company listed on the BRVM stock exchange, Turn to upper case the input by using `toupper()` and returns informations about the company's traded value

### Usage

```
company_traded_val(company)
```

### Arguments

company	The name of company listed on the BRVM stock exchange
---------	---

### Value

"character"

### Author(s)

Koffi Frederic SESSIE

### See Also

Other Data Retrieval: [BRVM\\_bySector\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_get1\(\)](#), [BRVM\\_get\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#)

Other BRVM: [BRVM.index\(\)](#), [BRVM\\_cap\(\)](#), [BRVM\\_company\\_cap\(\)](#), [BRVM\\_company\\_rank\(\)](#), [BRVM\\_company\\_url\(\)](#), [BRVM\\_index\\_stock\(\)](#), [BRVM\\_index\(\)](#), [BRVM\\_market\\_activity\(\)](#), [BRVM\\_plot\(\)](#), [BRVM\\_stock\\_market\(\)](#), [BRVM\\_ticker\\_desc\(\)](#), [BRVM\\_traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [normality\\_test\(\)](#), [stationarity\\_test\(\)](#)

### Examples

```
company_traded_val("ETIT")  
company_traded_val("ontbf")
```

---

normality_test	<i>Normality test with univariate data</i>
----------------	--

---

**Description**

Performs different types of normality test.

**Usage**

```
normality_test(x, type.test)
```

**Arguments**

x	a numeric vector or time series..
type.test	character such as "Anderson-Darling", "Shapiro-Wilk", "Jarque Bera", "Cramer-von Mises", "Shapiro-Francia", "Lilliefors (Kolmogorov-Smirnov)", "Pearson chi-square", "Agostino".

**Value**

a number that indicates the P-value of the normality test

**Author(s)**

Koffi Frederic SESSIE

**See Also**

stationarity\_test

Other Test: [stationarity\\_test\(\)](#)

Other BRVM: [BRVM.index\(\)](#), [BRVM.cap\(\)](#), [BRVM.company\\_cap\(\)](#), [BRVM.company\\_rank\(\)](#), [BRVM.company\\_url\(\)](#), [BRVM.index\\_stock\(\)](#), [BRVM.index\(\)](#), [BRVM.market\\_activity\(\)](#), [BRVM.plot\(\)](#), [BRVM.stock\\_market\(\)](#), [BRVM.ticker\\_desc\(\)](#), [BRVM.traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [stationarity\\_test\(\)](#)

**Examples**

```
library(goftest)
library(tseries)
library(nortest)
library(fBasics)

# one and a half week stock index
# data including a weekend
y <- ts(c(5353.08, 5409.24, 5315.57, 5270.53, 5211.66, NA, NA, 5160.80, 5172.37, 5160.80, 5172.37))

normality_test(y, "Shapiro-Wilk")
```

```
my_data <- BRVM_get("snts", .from = "2020-02-05", .to = "2022-02-05" )
normality_test((my_data$Close), "Agostino")
normality_test((my_data$Close[1:50]), "Jarque Bera")
```

---

stationarity\_test      *Stationarity test with univariate data*

---

### Description

Performs different types of stationarity test.

### Usage

```
stationarity_test(x, type.test)
```

### Arguments

x	a numeric vector or time series.
type.test	character such as "Box-Pierce and Ljung-Box", "Kwiatkowski-Phillips-Schmidt-Shin (KPSS)", "Augmented Dickey-Fuller Test (ADF)", "Phillips-Perron Unit Root Test"

### Value

a number that indicates the P-value of the stationarity test

### Author(s)

Koffi Frederic SESSIE

### See Also

normality\_test

Other Test: [normality\\_test\(\)](#)

Other BRVM: [BRVM.index\(\)](#), [BRVM.cap\(\)](#), [BRVM.company\\_cap\(\)](#), [BRVM.company\\_rank\(\)](#), [BRVM.company\\_url\(\)](#), [BRVM.index\\_stock\(\)](#), [BRVM.index\(\)](#), [BRVM.market\\_activity\(\)](#), [BRVM.plot\(\)](#), [BRVM.stock\\_market\(\)](#), [BRVM.ticker\\_desc\(\)](#), [BRVM.traded\\_val\(\)](#), [company\\_cap\(\)](#), [company\\_country\(\)](#), [company\\_nbrank\(\)](#), [company\\_sector\(\)](#), [company\\_traded\\_val\(\)](#), [normality\\_test\(\)](#)

**Examples**

```
library(tseries)

# one and a half week stock index
# data including a weekend
y <-ts(c(5353.08,5409.24,5315.57,5270.53, 5211.66,NA,NA,5160.80,5172.37,5160.80,5172.37))

stationarity_test(y, "Box-Pierce and Ljung-Box")
```

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